

102.4 - Copper Base Alloys (block and disk forms)

The SRMs with a "C" prefix are chill-cast blocks, 31 mm square and 19 mm thick; the others are wrought disks, 31 mm in diameter and 19 mm thick. Both forms have nearly identical elemental compositions.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Concentration are expressed as mass fraction, in % (unless noted by an asterisk * for mg/kg).																	
SRM	Description	Unit of Issue	Aluminum (Al)	Antimony (Sb)	Arsenic (As)	Bismuth (Bi)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Gold (Au)	Iron (Fe)	Lead (Pb)	Magnesium (Mg)	Manganese (Mn)	Nickel (Ni)	Phosphorus (P)
1107	Naval Brass UNS 46400	disk	0.083							61.183	0.0389	0.1850			0.0946		
1110	Red Brass B	disk								84.59	0.033	0.033			0.053		
1111	Red Brass Standard	disk								87.14	0.010	0.013			0.022		
1112	Gilding Metal	disk								93.38	0.070	0.057			0.100	0.009	
1113	Gilding Metal	disk								95.03	0.043	0.026			0.057	0.008	
1114	Gilding Metal	disk								96.45	0.017	0.012			0.021	0.009	
1115	Commercial Bronze Standard for Optical Emission and X-ray Spectroscopic Analysis	disk								87.96	0.13	0.013			0.074	0.05	
C1115	Commercial Bronze A (block)	disk								87.96	0.13	0.013			0.074	0.05	
1116	Commercial Bronze Standard for Optical Emission and X-ray Spectroscopic Analysis	disk								90.37	0.046	0.042			0.048	0.008	
1117	Commercial Bronze Standard for Optical Emission and X-ray Spectroscopic Analysis	disk								93.01	0.014	0.069			0.020	0.002	
C1117	Commercial Bronze C (block)	disk								93.01	0.014	0.069			0.020	0.002	
1124	Free Cutting Brass (UNS C36000)	1 disk	232.5*		202*	65.1*	155*	(14*)	(62.5*)		0.2068	3.363		(9*)	0.0801	224*	
C1251a	Phosphorus Deoxidized Copper - Cu VIII	block	(<20)	14.9	16	3.7	(<3)	(3)	13.2	99.89*	15.5	285	23.5	(<20)	4.6	23.6	420
C1252a	Phosphorus Deoxidized Copper - Cu IX	block	(<20)	42	118	(19)	16.9	19	87	99.87*	33.9	72	60	(<20)	43	128	125
C1253a	Phosphorus Deoxidized Copper - Cu X	block	176	139	436	(56)	70	260	454	99.46*	72	290	243	(150)	357	491	561
1276a	Cupro-Nickel (CDA 715)	disk	0.0004				0.0002		0.045	67.8	0.56	0.004	0.12	1.01	30.5	0.006	

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only